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MINERAL INDUSTRY SURVEYS

U. S. DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
WASHINGTON, D.C. 20241

COMPLETED

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CONTIN

MARKETABLE PHOSPHATE ROCK - OCTOBER 1986

The annual rate of production of marketable phosphate rock in October 1986, calculated from reported data, was 41.7 million metric tons1/, according to the Bureau of Mines, U.S. Department of the Interior. This was essentially unchanged from the production rate reported in September. Calendar year 1985 production was about 51 million tons.

The annual rate of phosphate rock sold or used based on October reported data was 43.7 million tons, slightly higher than that reported in September but about 6% lower than the 46.6-million-ton rate for 1985.

Producers' stocks at the end of October were about 13.8 million tons, or about 11% less than September ending stocks.

According to the Bureau of the Census, exports for October were about 858,000 tons. The annual rate of exports was 10.1 million tons. The October exports were used to compute apparent consumption.

Phosphate rock imports reported in October were 1,373 tons and 34,401 tons from the Netherlands Antilles and the Republic of Togo, respectively. Imports to date are 389,979 tons with a c.i.f. value2/ of $19,215,597.

The annual rate of apparent consumption of marketable phosphate rock for October was 34.0 million tons. This was about 6% lower than the September rate and lower than the rate reported for all of 1985.

The status of the U.S. phosphate rock industry changes as production schedules are adjusted to meet demand; however, some estimates can be made to characterize the performance of the industry. In the Western United States, the Warm Springs, Montana, Mine was closed. The Mabie Canyon Mine in Idaho was closed. Monsanto Co. terminated phosphate mining in Tennessee. In Florida, the Four Corners, Big Four, Payne Creek, Lonesome, Silver City, Nichols, and Lithia Mines are closed. The closed mines represent 27% of U.S. phosphate rock capacity.

Phosphate rock mines that are operating are producing at substantially less than capacity. It is estimated that U.S. phosphate rock mines are producing at about 47% of capacity.

The Moroccan Office Cherifien des Phosphates kindly furnished a summary of the January through September 1986 phosphate rock deliveries, totaling 10,333,400 tons. The recent deliveries information has been presented with yearend 1984 and 1985 figures for comparison. Data appear on page 5.

1/All data are in metric tons unless otherwise specified.
2/Calculated from cost, insurance, and freight (c.i.f.) values at U.S. ports(s).
Prepared in the Division of Industrial Minerals, December 4, 1986.

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Table 1.—United States phosphate rock statistics, 1986 by region
(Thousand metric tons)1/

Period	Marketable Production	Sold and/or used			Ending stocks
		Domestic	Exports	Total	
	Florida and North Carolina				
January	2,587	1,715	621	2,336	15,087
February	3,315	2,183	718	2,901	15,591
March	3,187	2,673	592	3,265	15,513
First quarter	9,089	6,571	1,932	8,503	
April	3,183	2,594	660	3,254	15,442
May	2,952	2,467	461	2,928	15,254
June	2,626	2,166	745	2,911	15,289
Second quarter	8,760	7,227	1,866	9,093	
July	2,045	2,450	480	2,930	14,215
August	2,894	1,976	576	2,552	14,329
September	2,988	2,398	620	3,018	14,321
Third quarter	7,927	6,824	1,676	8,500	
October	2,955	2,583	689	3,272	12,230
Year to date	28,731	23,204	6,164	29,368	
Year to date 1985	37,893	27,156	7,573	34,729	2/14,315
	Tennessee				
January	42	79	—	79	116
February	74	90	—	90	104
March	101	103	—	103	104
First quarter	217	271	—	271	
April	26	113	—	113	121
May	146	134	—	134	139
June	134	133	—	133	148
Second quarter	406	381	—	381	
July	134	110	—	110	176
August	131	124	—	124	183
September	131	115	—	115	197
Third quarter	395	349	—	349	
October	112	113	—	113	198
Year to date	1,131	1,114	—	1,114	
Year to date 1985	1,104	1,098	—	1,098	2/213
	Western States 3/				
January	306	168	37	205	1,008
February	218	165	34	199	997
March	313	193	44	237	1,031
First quarter	837	525	116	641	
April	377	328	55	383	985
May	426	402	52	454	915
June	506	386	25	411	975
Second quarter	1,309	1,117	132	1,249	
July	559	400	5	405	1,086
August	697	674	—	674	1,479
September	372	403	50	453	1,031
Third quarter	1,628	1,476	55	1,531	
October	477	269	54	323	1,359
Year to date	4,251	3,387	357	4,744	
Year to date 1985	4,402	4,042	571	4,513	2/788
	United States				
January	2,935	1,961	658	2,619	16,212
February	3,607	2,438	752	3,190	16,692
March	3,602	2,969	636	3,605	16,647
First quarter	10,143	7,367	2,047	9,414	
April	3,686	3,035	716	3,751	16,546
May	3,524	3,003	513	3,516	16,308
June	3,265	2,686	770	3,456	16,413
Second quarter	10,475	8,724	1,998	10,722	
July	2,738	2,959	485	3,444	15,472
August	3,721	2,774	576	3,350	15,990
September	3,491	2,916	670	3,586	15,549
Third quarter	9,950	8,649	1,731	10,380	
October	3,544	2,965	743	3,708	13,787
Year to date	34,113	27,705	6,520	37,225	
Year to date 1985	43,400	32,296	8,144	40,340	2/15,315

r/Revised.
1/Data may not add to total(s) shown because of independent rounding.
2/Ending stocks, prior year comparative monthly report.
3/Includes Idaho, Montana, and Utah.

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Table 2.—Selected U.S. exports of phosphate rock, 1985 and 1986 1/ 2/
(Thousand metric tons and thousand dollars)

Destination	1985		1986			
			October		Year to date	
	Quantity	Value	Quantity	Value	Quantity	Value
Belgium-Luxembourg	NA	NA	46	NA	514	NA
Canada	NA	NA	263	NA	1,994	NA
France	NA	NA	66	NA	678	NA
Japan	NA	NA	24	NA	829	NA
Korea, Republic of	NA	NA	101	NA	1,168	NA
Netherlands	NA	NA	60	NA	450	NA
Poland	NA	NA	30	NA	496	NA
Rest of World	NA	NA	268	NA	1,529	NA
Total	10,166	357,224	858	26,731	7,658	247,798

NA Not available.
1/All values free alongside ship (f.a.s.) at U.S. ports.
2/Actual phosphate rock exports reported in Schedule B number 480.4500.
Source: Bureau of the Census.

Table 3.—U.S. apparent consumption of phosphate rock, 1986 1/
(Thousand metric tons)

Period	Apparent consumption
January	1,932
February	2,412
March	2,661
April	3,154
May	2,453
June	2,938
July	2,856
August	2,683
September	2,980
October	2,886
Year to date	26,955
Year to date 1985	30,870

1/Calculated as sold or used, plus imports, minus exports—Schedule B, 480.4500.

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Table 4.—Comparative phosphate rock statistics
(Million metric tons per year and dollars per metric ton for period shown)

	1983[1/]	1984[1/]	1985[1/]	1986		
				Year to date	September	October
United States:						
Marketable production:						
Florida and N. Carolina	36.0	42.5	45.2	34.5	36.4	34.7
Tennessee	1.2	1.4	1.2	1.4	1.6	1.3
Western States	5.4	5.4	4.4	5.1	4.5	5.7
Total[2/]	42.6	49.2	50.8	41.0	42.5	41.7
Sold or used by producers:						
Florida and N. Carolina	40.2	46.4	40.9	35.3	36.7	38.5
Tennessee	1.2	1.3	1.3	1.3	1.4	1.3
Western States	5.4	5.5	4.5	4.5	5.5	3.8
Total[2/3/]	46.8	53.3	46.6	41.1	43.6	43.7
Yearend Stocks	14.5	11.9	15.5	XX	XX	XX
Exports[4/]	12.0	11.5	10.3	9.2	7.4	10.1
Average value per ton[5/]	$34.72	$33.68	$35.14	$32.36	$32.29	$31.16
Imports for consumption[6/]	(7/)	(7/)	(7/)	0.5	(7/)	(7/)
Average value per ton[8/]	$42.00	$31.71	$51.54	$49.28	—	—
Apparent consumption	34.8	41.8	36.4	32.4	36.3	34.0

XX Not applicable.
1/Data modified to agree with 1985 Phosphate Rock Minerals Yearbook chapter data.
2/Data may not add to totals shown because of independent rounding.
3/Includes exports reported by producers.
4/Data supplied by the Bureau of the Census—Schedule B, 480.4500.
5/Calculated from free alongside ship (f.a.s.) values at U.S. ports.
6/Data supplied by the Bureau of the Census under International Trade Commission-Tariff Schedule TSUSA No. 480.4500.
7/Less than 1/2 unit.
8/Calculated from cost, insurance, and freight (c.i.f.) values at U.S. port(s).

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Moroccan Phosphate Rock Exports
1984, 1985, and January through September 1986
(Thousand metric tons)

Country	1984	1985	January through September 1986
Albania	45.6	39.2	4.5
Australia	93.5	96.2	25.0
Austria	--	--	11.4
Bangladesh	--	--	43.0
Belgium	1,647.8	1,497.2	1,079.4
Brazil	--	--	12.7
Bulgaria	114.4	138.9	45.6
Canada	--	22.0	64.0
China	205.7	100.0	165.6
Czechoslovakia	109.1	148.9	110.9
Denmark	143.5	181.0	63.2
Finland	116.3	178.5	51.1
France	1,953.2	1,621.5	815.6
German Democratic Republic	--	155.8	98.0
Germany, Federal Republic of	414.3	576.8	339.5
Greece	323.7	344.1	70.1
Hungary	123.5	121.5	74.8
India	305.6	305.3	222.4
Indonesia	165.0	255.1	204.4
Ireland	4.7	4.2	2.0
Italy	718.4	524.2	405.6
Japan	632.6	599.0	335.1
Korea, Republic of	--	3.0	22.0
Malaysia	20.8	38.3	11.0
Mexico	769.4	804.9	563.9
Netherlands	677.4	598.8	402.3
Norway	66.8	77.1	82.2
Pakistan	--	10.0	--
Philippines	115.7	160.3	288.2
Poland	1,079.6	1,153.1	1,054.5
Portugal	401.8	247.2	182.5
Romania	458.8	601.8	581.0
Spain	2,620.0	2,503.0	1,795.4
Sweden	274.9	231.9	125.6
Switzerland	3.2	3.3	2.0
Taiwan	49.7	85.5	58.0
Tanzania	--	15.0	--
Turkey	51.2	55.1	103.5
United Kingdom	912.7	779.0	453.3
U.S.S.R.	--	10.6	49.3
Venezuela	54.0	72.0	35.4
Yugoslavia	278.4	429.8	279.4
Total1/	14,951.3	14,789.8	10,333.4

1/Data do not add to total shown because of independent rounding.
Source: Moroccan Office Cherifien des Phosphates.

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